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Establishing Characteristics of a Function Transformer from Randomly Observed Points. Ya. Z. Tsypkin	1878	1947
The Robbins-Monro Process and the Method of Potential Functions. M. A. Aizerman, É. M. Braverman, and L. I. Rozonoér	1882	1951
The Gradient Method of Solving Convex Programming Problems on Electronic Analog Computers. M. V. Rybashov	1886	1955
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Automatic Boiler Start-Up System with Nearly Optimum Response. G. A. Dzhigit	1911	1983
Methods for Calculating the Parameters of Threshold Transistor Logic Units. S. M. Domanitskii and I. V. Prangishvili	1925	1996
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Multistable Parametrons. V. P. Komolov	1939	2012
Optimization of Reliability and Structure of Hierarchic Control Systems. II. Optimization of Structure. A. I. Koekin	1945	2019
Providing Redundancy to Devices Operating Cycle By Cycle. L. B. Venchkovskii	1952	2026
Extension of Parametric Stability Region with the Aid of Nonlinear Controls. V. P. Alekperov and V. S. Khabarov	1959	2032
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The Russian press date (podpisano k pechati) of this issue was 11/4/1965. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

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Automation and Remote Control

A translation of Avtomatika i Telemekhanika, a publication of the Academy of Sciences of the USSR

Vol. 26, No. 12 **December, 1965**

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SOVIET JOURNALS AVAILABLE IN COVER-TO-COVER TRANSLATION

This list includes all Russian journals which—to the publisher's knowledge—were available in cover-to-cover translation on June 30, 1965, or for which definite and immediate plans for cover-to-cover translation had been announced by that date. The list reflects only *current* publication arrangements, but the date and issue listed for first publication refer to translations available from any source. Thus, earlier volumes of a translation journal may have been published by an organization other than that listed as the current publisher, and possibly under a different title (and, for *Doklady Akademii Nauk SSSR*, in a different arrangement of sections).

Five bits of information are furnished, separated by bullets:

1. The abbreviation(s) by which the journals are most frequently referred to in Russian bibliographies (if the name of the journal is customarily spelled out, no abbreviation is given).
2. The transliterated full name of the journal.
3. The full name of the translation journal (in bold type).
4. The year, volume (in parentheses), and issue of first publication of the translation (parentheses are empty if the Russian journal does not use volume numbers).
5. The current publisher of the translation [AGI—American Geological Institute, AGU—American Geophysical Union, AIP—American Institute of Physics, CB—Consultants Bureau, CH—Clearing House for Federal Scientific and Technical Information, CS—The Chemical Society (London), FP—Faraday Press, IEEE— Institute of Electrical and Electronic Engineers, ISA—Instrument Society of America, PP—Pergamon Press].

For convenience in locating bibliographic references the journals are listed in alphabetical order of the *abbreviated* titles.

AÉ • Atomnaya énergiya • **Soviet Journal of Atomic Energy** • 1956(1)1 • CB

Akust. zh. • Akusticheskii zhurnal • **Soviet Physics–Acoustics** • 1955(1)1 • AIP

Astrofiz. • Astrofizika • **Astrophysics** • 1965(1)1 • FP

Astr(on). zh(urn). • Astronomicheskii zhurnal • **Soviet Astronomy–AJ** • 1957(34)1 • AIP

Avtomat. i telemekh. • Avtomatika i telemekhanika • **Automation and Remote Control** • 1956(27)1 • ISA

Avto(mat). svarka • Avtomaticheskaya svarka • **Automatic Welding** • 1959(12)1 • British Welding Research Association

Avtometriya • **Autometry** • 1965(1)1 • CB

Biokhim. • Biokhimiya • **Biochemistry** • 1956(21)1 • CB

Byul. éksp(erim). biol. (i med.) • Byulleten' éksperimental'noi biologii i meditsiny • **Bulletin of Experimental Biology and Medicine** • 1959(41)1 • CB

DAN (SSSR) • *see* Doklady AN SSSR

Defektoskopiya • **Soviet Defectoscopy** • 1965(1)1 • CB

Diff. urav. • Differentsial'nye uravneniya • **Differential Equations** • 1965(1)1 • FP

Dokl(ady) AN SSSR; DAN (SSSR) • Doklady Akademii Nauk SSSR • The translation of Doklady is published in various journals, according to subject matter. The sections of Doklady contained in each of the translation journals are listed in parentheses.

Doklady Biochemistry (biochemistry) • 1957(112)1 • CB

Doklady Biological Sciences Sections (anatomy, cytology, ecology, embryology, endocrinology, evolutionary morphology, parasitology, physiology, zoology) • 1957(112)1 • CB

Doklady Biophysics (biophysics) • 1957(112)1 • CB

Doklady Botany (botany, phytopathology, plant anatomy, plant ecology, plant embryology, plant physiology, plant morphology) • 1957(112)1 • CB

Doklady Chemical Technology (chemical technology) • 1956(106)1 • CB

Doklady Chemistry (chemistry) • 1956(106)1 • CB

Doklady Earth Sciences Sections (geochemistry, geology, geophysics, hydrogeology, lithology, mineralogy, paleontology, permafrost, petrography) • 1959(124)1 • AGI

Doklady Physical Chemistry (physical chemistry) • 1957(112)1 • CB

Doklady Soil Science (soil science) • 1964(154)1 • Soil Science Society of America

Soviet Mathematics–Doklady (mathematics) • 1960(130)1 • American Mathematical Society

Soviet Oceanography (oceanology) • 1959(124)1 • AGU

Soviet Physics–Doklady (aerodynamics, astronomy, crystallography, cybernetics and control theory, electrical engineering, energetics, fluid mechanics, heat engineering, hydraulics, mathematical physics, mechanics, physics, technical physics, theory of elasticity • 1956(106)1 • AIP

Élektrokhimiya • **Soviet Electrochemistry** • 1965(1)1 • CB

Élektrosvyaz' • combined with Radiotekhnika in **Telecommunications and Radio Engineering** • 1957(16)1 • IEEE

Élektrotekh. • Élektrotekhnika • **Soviet Electrical Engineering** • 1965(36)1 • FP

Éntom(ol). oboz(r). • Éntomologicheskoe obozrenie • **Entomological Review** • 1958(37)1 • Entomological Society of America

Fiz. goreniya i vzryva • Fizika goreniya i vzryva • **Combustion, Explosion, and Shock Waves** • 1965(1) • FP

Fiziol(ogiya) rast. • Fiziologiya rastenii • **Soviet Plant Physiology** • 1957(4)1 • CB

Fiz.-khim. mekh(anika) mater(ialov); FKhMM • Fizikokhimicheskaya mekhanika materialov • **Soviet Materials Science** • 1965(1)1 • FP

Fiz. met. i metallov.; FMM • Fizika metallov i metallovedenie • **Physics of Metals and Metallography** • 1957(5)1 • Acta Metallurgica

Fiz.-tekhn. probl. razr. polezn. iskopaem. • Fizikotekhnicheskie problemy razrabotki poleznykh iskopaemykh • **Soviet Mining Science** • 1965(1)1 • CB

Fiz. tv(erd). tela; FTT • Fizika tverdogo tela • **Soviet Physics–Solid State** • 1959(1)1 • AIP

FKhMM • *see* Fiz.-khim. mekhanika materialov

FMM • *see* Fiz. met. i metallov.

FTT • *see* Fiz. tverd. tela

Geliotekh. • Geliotekhnika • **Applied Solar Energy** • 1965(1)1 • FP

Geol. nefti i gaza • Geologiya nefti i gaza • **Petroleum Geology** • 1958(2)1 • Petroleum Geology, Box 171, McLean, Va.

Geomagnet. i aéronom. • Geomagnetizm i aéronomiya • **Geomagnetism and Aeronomy** • 1961(1)1 • AGU

Inzh.-fiz. zh. • Inzhenerno-fizicheskii zhurnal • **Journal of Engineering Physics** • 1965(8)1 • FP

Inzh. zh. • Inzhenernyi zhurnal • **Soviet Engineering Journal** • 1965(5)1 • FP

Iskusstv. sputniki Zemli • Iskusstvennye sputniki Zemli • **Artificial Earth Satellites** • 1958(1)1 • CB [superseded by Kosmich. issled.]

Izmerit. tekhn(ika) • Izmeritel'naya tekhnika • **Measurement Techniques** • 1958(7)1 • ISA

Izv. AN SSSR, o(td.) kh(im.) n(auk) (*or* ser. khim.) • Izvestiya Akademii Nauk SSSR: Otdelenie khimicheskikh nauk (*or* Seriya khimicheskaya) • **Bulletin of the Academy of Sciences of the USSR: Division of Chemical Science** • 1952(16)1 • CB

Izv. AN SSSR, ser. fiz(ich). • Izvestiya Akademii Nauk SSSR: Seriya fizicheskaya • **Bulletin of the Academy of Sciences of the USSR: Physical Series** • 1954(18)3 • Columbia Technical Translations

Izv. AN SSSR, ser. fiz. atm. i okeana • Izvestiya Akademii Nauk SSSR: Seriya fiziki atmosfery i okeana • **Izvestiya, Atmospheric and Oceanic Physics** • 1965( )1 • AGU

Izv. AN SSSR, ser. fiz. zemli • Izvestiya Akademii Nauk SSSR: Seriya fiziki zemli • **Izvestiya, Physics of the Solid Earth** • 1965( )1 • AGU

Izv. AN SSSR, ser. geofiz. • Izvestiya Akademii Nauk SSSR: Seriya geofizicheskaya • **Bulletin of the Academy of Sciences of the USSR: Geophysics Series** • 1957(7)1 • AGU [superseded by Izv. AN SSSR, ser. fiz. atm. i okeana and Izv. AN SSSR, ser. fiz. zemli]

Izv. AN SSSR, ser. geol. • Izvestiya Akademii Nauk SSSR: Seriya geologicheskaya • **Bulletin of the Academy of Sciences of the USSR: Geologic Series** • 1958(23)1 • AGI

Izv. AN SSSR, ser. neorgan. mat(er). • Izvestiya Akademii Nauk SSSR: Seriya neorganicheskie materialy • **Inorganic Materials** • 1965(1)1 • CB

Izv. AN SSSR, tekhn. kiber(netika) • Izvestiya Akademii Nauk SSSR: Tekhnicheskaya kibernetika • **Engineering Cybernetics** • 1963(1)1 • IEEE

Izv. v(yssh.) u(ch.) z(av.) aviats. tekh. • Izvestiya vysshikh uchebnykh zavedenii. Aviatsionnaya tekhnika • **Aviation Engineering** • 1963(6)1 • CH

Izv. v(yssh.) u(ch.) z(av.) fiz. • Izvestiya vysshikh uchebnykh zavedenii. Fizika • **Soviet Physics Journal** • 1965(8)1 • FP

Izv. v(yssh.) u(ch.) z(av.) geodez. i aérofot. • Izvestiya vysshikh uchebnykh zavedenii. Geodeziya i aérofotos"emka • **Geodesy and Aerophotography** • 1959(4)1 • AGU

Izv. v(yssh.) u(ch.) z(av.) priborostr. • Izvestiya vysshikh uchebnykh zavedenii. Priborostroenie • **Izvestiya VUZOV. Instrument Building** • 1962(5)1 • CH

Izv. v(yssh.) u(ch.) z(av.) radiofiz. • Izvestiya vysshikh uchebnykh zavedenii. Radiofizika • **Izvestiya VUZOV. Radiophysics** • 1958(1)1 • CH

Izv. v(yssh.) u(ch.) z(av.) radiotekhn(ika) • Izvestiya vysshikh uchebnykh zavedenii. Radiotekhnika • **Izvestiya VUZOV. Radio Engineering** • 1959(2)1 • CH

Izv. v(yssh.) u(ch). z(av.) tekh. teks. prom. • Izvestiya vysshikh uchebnykh zavedenii. Tekhnologiya tekstilnoi promyshlennosti • **Technology of the Textile Industry, USSR** • 1960(4)1 • The Textile Institute (Manchester)

Kauch. i rez. • Kauchuk i rezina • **Soviet Rubber Technology** • 1959 (18)3 • Maclaren and Sons Ltd.

Khim. getero(tsik). soed. • Khimiya geterotsiklicheskikh soedinenii • **Chemistry of Heterocyclic Compounds** • 1965(1)1 • FP

Khim. i neft. mash(inostr). • Khimicheskoe i neftyanoe mashinostroenie • **Chemical and Petroleum Engineering** • 1965( )1 • CB

Khim. i tekhnol. topliv i masel • Khimiya i tekhnologiya topliv i masel • **Chemistry and Technology of Fuels and Oils** • 1965( )1 • CB

Khim. prirod. soed. • Khimiya prirodnykh soedinenii • **Chemistry of Natural Compounds** • 1965(1)1 • FP

Kib. • Kibernetika • **Cybernetics** • 1965(1)1 • FP

Kinet. i katal. • Kinetika i kataliz • **Kinetics and Catalysis** • 1960(1)1 • CB

Koks i khim. • Koks i khimiya • **Coke and Chemistry, USSR** • 1959( )8 • Coal Tar Research Assn. (Leeds, England)

Kolloidn. zh(urn). • Kolloidnyi zhurnal • **Colloid Journal** • 1952(14)1 • CB

Kosmich. issled. • Kosmicheskie issledovaniya • **Cosmic Research** • 1963(1)1 • CB

Kristallog. • Kristallografiya • **Soviet Physics–Crystallography** • 1957 (2)1 • AIP

Liteinoe proiz(-vo). • Liteinoe proizvodstvo • **Russian Castings Production** • 1961(12)1 • British Cast Iron Research Association

Mag. gidrodin. • Magnitnaya gidrodinamika • **Magnetohydrodynamics** • 1965(1)1 • FP

Mekh. polim. • Mekhnika polimerov • **Polymer Mechanics** • 1965(1)1 • FP

Metalloved. i term. obrabotka metal.; MiTOM • Metallovedenie i termicheskaya obrabotka metallov • **Metal Science and Heat Treatment** • 1958(6)1 • CB

Metallurg • **Metallurgist** • 1957( )1 • CB

Mikrobiol. • Mikrobiologiya • **Microbiology** • 1957(26)1 • CB

MiTOM • *see* Metalloved. i term. obrabotka metal.

Ogneupory • **Refractories** • 1960(25)1 • CB

Opt. i spektr.; OS • Optika i spektroskopiya • **Optics and Spectroscopy** • 1959(6)1 • AIP

Osnovan. fund. i mekh. gruntov • Osnovaniya fundamenty i mekhanika gruntov • **Soil Mechanics and Foundation Engineering** • 1964 ( )1 • CB

Paleon. zh(urn). • Paleontologicheskii zhurnal • **Journal of Paleontology** • 1962( )1 • AGI

Plast. massy • Plasticheskie massy • **Soviet Plastics** • 1960(8)7 • Rubber and Technical Press, Ltd.

PMM • *see* Prikl. matem. i mekhàn.

PMTF • *see* Zhur. prikl. mekhan. i tekhn. fiz.

Pochvovedenie • **Soviet Soil Science** • 1958(53)1 • Soil Science Society of America

Poroshk. met. • Poroshkovaya metallurgiya • **Soviet Powder Metallurgy and Metal Ceramics** • 1962(2)1 • CB

Priborostroenie • **Instrument Construction** • 1959(4)1 • Taylor and Francis, Ltd.

Pribory i tekhn. éksp(erimenta); PTÉ • Pribory i tekhnika éksperimenta • **Instruments and Experimental Techniques** • 1958(3)1 • ISA

Prikl. biokhim. i mikrobiol. • Prikladnaya biokhimiya i mikrobiologiya • **Applied Biochemistry and Microbiology** • 1965(1)1 • FP

Prikl. matem. i mekh(an).; PMM • Prikladnaya matematika i mekhanika • **Applied Mathematics and Mechanics** • 1958(22)1 • PP

Probl. pered. inform. • Problemy peredachi informatsii • **Problems of Information Transmission** • 1965(1)1 • FP

Probl. severa • Problemy severa • **Problems of the North** • 1958( )1 • National Research Council of Canada

PTÉ • *see* Pribory i tekhn. éksperimenta

Radiokhim. • Radiokhimiya • **Soviet Radiochemistry** • 1962(4)1 • CB

Radiotekh. • Radiotekhnika • combined with Élektrosvyaz' in **Telecommunications and Radio Engineering** • 1961(16)1 • IEEE

Radiotekhn. i élektron(ika) • Radiotekhnika i élektronika • **Radio Engineering and Electronic Physics** • 1961(6)1 • IEEE

Stal' • **Stal' in English** • 1959(19)1 • The Iron and Steel Institute

Stanki i instr. • Stanki i instrument • **Machines and Tooling** • 1959 (30)1 • Production Engineering Research Association

Stek. i keram. • Steklo i keramika • **Glass and Ceramics** • 1956(13)1 • CB

Svaroch. proiz(-vo). • Svarochnoe proizvodstvo • **Welding Production** • 1959(5)4 • British Welding Research Association (London)

Teor. i éksperim. khim. • Teoreticheskaya i éksperimental'naya khimiya • **Theoretical and Experimental Chemistry** • 1965(1)1 • FP

Teor. veroyat. i prim. • Teoriya veroyatnostei i ee primenenie • **Theory of Probability and Its Application** • 1956(1)1 • Society for Industrial and Applied Mathematics

Teploénergetika • **Thermal Engineering** • 1964(11)1 • PP

Teplofiz. vys(ok). temp. • Teplofizika vysokikh temperatur • **High Temperature** • 1963(1)1 • CB

Tsvet. metally • Tsvetnye metally • **The Soviet Journal of Nonferrous Metals** • 1960(33)1 • Primary Sources

Usp. fiz. nauk; UFN • Uspekhi fizicheskikh nauk • **Soviet Physics–Uspekhi** • 1958(66)1 • AIP

Usp. khim.; UKh • Uspekhi khimii • **Russian Chemical Reviews** • 1960(29)1 • CS

Usp. mat. nauk; UMN • Uspekhi matematicheskaya nauk • **Russian Mathematical Surveys** • 1960(15)1 • Cleaver-Hume Press, Ltd.

Vest. Akad. med. nauk SSSR • Vestnik Akademii meditsinskikh nauk SSSR • **Vestnik of USSR Academy of Medical Sciences** • 1962(17)1 • CH

Vest. mashinostroeniya • Vestnik mashinostroeniya • **Russian Engineering Journal** • 1959(39)4 • Production Engineering Research Association

Vest. svyazi • Vestnik svyazi • **Herald of Communications** • 1954(14)1 • CH

Vysoko(molek). soed(ineniya) • Vysokomolekulyarnye soedineniya (SSSR) • **Polymer Science (USSR)** • 1959(1)1 • PP

Yadernaya fizika • **Soviet Journal of Nuclear Physics** • 1965(1)1 • AIP

Zashch(ita) met(allov) • Zashchita metallov • **Protection of Metals** • 1965(1)1 • CB

Zav(odsk). lab(oratoriya); ZL • Zavodskaya laboratoriya • **Industrial Laboratory** • 1958(24)1 • ISA

ZhÉTF pis'ma redaktsiyu • **JETP Letters** • 1965(1)1 • AIP

Zh(ur). anal(it). khim(ii); ZhAKh • Zhurnal analiticheskoi khimii • **Journal of Analytical Chemistry** • 1952(7)1 • CB

Zh(ur). éks(perim). i teor. fiz.; ZhÉTF • Zhurnal éksperimental'noi i teoreticheskoi fiziki • **Soviet Physics–JETP** • 1955(28)1 • AIP

Zh(ur). fiz. khimii; ZhFKh • Zhurnal fizicheskoi khimii • **Russian Journal of Physical Chemistry** • 1959(33)7 • CS

Zh(ur). neorg(an). khim.; ZhNKh • Zhurnal neorganicheskoi khimii • **Russian Journal of Inorganic Chemistry** • 1959(4)1 • CS

Zh(ur). obshch. khim.; ZhOKh • Zhurnal obshchei khimii • **Journal of General Chemistry of the USSR** • 1949(19)1 • CB

Zh(ur). org. khim.; ZhOrKh(im) • Zhurnal organicheskoi khimii • **Journal of Organic Chemistry of the USSR** • 1965(1)1 • CB

Zh(ur). prikl. khim.; ZhPKh • Zhurnal prikladnoi khimii • **Journal of Applied Chemistry of the USSR** • 1950(23)1 • CB

Zh(ur). prikl. mekhan. i tekhn. fiz. • Zhurnal prikladnoi mekhaniki i tekhnicheskoi fiziki • **Journal of Applied Mechanics and Technical Physics** • 1965( )1 • FP

Zh(ur). prikl. spektr. • Zhurnal prikladnoi spektroskopii • **Journal of Applied Spectroscopy** • 1965(2)1 • FP

Zh(ur). strukt(urnoi) khim.; ZhSKh • Zhurnal strukturnoi khimii • **Journal of Structural Chemistry** • 1960(1)1 • CB

Zh(ur). tekhn. fiz.; ZhTF • Zhurnal tekhnicheskoi fiziki • **Soviet Physics–Technical Physics** • 1956(26)1 • AIP

Zh(ur). vses. khim. ob-va im. Mendeleeva • Zhurnal vsesoyuznogo khimicheskogo obshchestva im. Mendeleeva • **Mendeleev Chemistry Journal** • 1965(10)1 • FP

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